lf not shown, please enter your 11-digit Census File Number from the address label on page 1

Census File Number

Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997

INSTRUCTIONS

1. General – The materials, parts, and supplies listed below are those commonly consumed in the manufacture, processing, or assembly of the products listed in item 18B. Please review the entire list and report separately each item consumed. Leave blank if you do not consume the item. If you use materials, parts, and supplies which are not listed, describe and report them in the "Cost of all other materials . . . " line at the end of this section. If you consumed less than \$25,000 of a listed material, include the value with "Cost of all other materials . . . ," Census material code 970099 8.

Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

2. Valuation of Materials Consumed – The value of the materials, etc., consumed should be based on the delivered cost; i.e., the amount paid or payable after discounts and including freight and other direct charges incurred in acquiring the materials.

Materials received from other plants within your company should be reported at their full economic value (the value assigned by the shipping plant, plus the cost of freight and other handling charges).

If purchases or transfers do not differ significantly from the amounts actually put into production, you may report the cost of purchases or transfers. However, if consumption differs significantly from the amounts purchased or transferred, these amounts should be adjusted for changes in the materials and supplies inventories by adding the beginning inventory to the amount purchased or transferred and subtracting ending inventory.

- 3. Contract Work Include as materials consumed those you purchased for use by others making products for you under contract. Amounts paid to the companies doing the contract work should be reported in item 10, line e, and should include freight in and out. On the other hand, materials owned by others but used at this establishment in making products for others under contract or on commission should be excluded.
- 4. Resales Cost for products bought and sold or transferred from other establishments of your company and sold without further manufacture, processing, or assembly should be reported in item 10, line b, not in item 17 below. The value of these products shipped by this establishment should be reported in item 18B under Census product code 99989 00 6, "Resales."
- 5. Produced and Consumed Forgings, foundries, and screw machine products Report the quantities produced and used in manufacturing other products made in this establishment in item 19. Note that the materials used to produce these items should be reported in item 17.

		M	aterials, parts, and supplies	Census material code	Cost, includ	d mate materia rom ot ents of pany ling de	rials als ther your
Š.					cost (fr	eight-ir	n) ,
Line No.						E) Thou- I	
			(A)	(B)	Millions	sands	
1	FABRICATED METAL PRODUCTS	Bolts, nuts, scre	ws, washers, rivets, and screw machine products	345001 2	\$		
	(Except forgings)				ĺ	Ì	
2		All other fabricat	ed metal products	340098 3	į	į	
3	Forgings			346000 3		İ	
4	CASTINGS (Rough and semifinished)	Iron and steel		332001 7		 	
5	,	Copper and cop	per-base alloy	336006 2			
6		Other nonferrous	S	336011 2	i	i	
7	Shapes and Forms (Except	STEEL	Bars, bar shapes, and plates	331007 5		 	
8	castings, forgings,		Sheet and strip	331022 4			
9	and fabricated metal		Wire and wire products	331027 3			
10	products)		All other	331019 0		İ	
11	Copper and copper-base alloy			335105 3			
12		Aluminum and aluminum-base alloy				 	
13		All other nonferr	ous	335099 8		İ	
14	Insulated copper	wire and cable (e	335792 8				

lt	Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997 – Continued										
	Materials, parts, and supplies			Census material code	Cost, including delive						
ş.					cost (f	reight-in) (E)					
Line No.			571	574	 Thou-						
	Electric	FRACTIONAL	(A)	(B)	Millions	sands Dollars					
15	Motors and	HORSEPOWER ELECTRIC	Timing motors, synchronous and subsynchronous	362110 9	\$						
	Generators	MOTORS (Less than									
16		1 hp)	Other (excluding timing motors)	362114 1							
17		Integral horsepowe	er motors and generators (1 hp or more)	362120 8		1 1					
18	Electric transmis	sion, distribution, an	d control equipment	360101 0							
19	Electrical industri	ial capacitors, resist	ors, rheostats, and coil windings	362001 0							
20	Pressure gauges	3		382301 0		1 1					
21	BEARINGS (Including mounted or					1 1					
22	unmounted)	Roller		356201 4							
23	Paperboard cont	ainers, boxes, and c	corrugated paperboard	265001 8							
24	Industrial robots	purchased for fabric	ation with welding equipment	356971 2		l 					
25			nponents, parts, containers, and supplies consumed	970099 8							
	Describe the pri	incipal materials, e	tc., included in this value.								
26	TOTAL Sum of lir	nes 1–25 should eq	ual item 10, line a		\$						
	24 67 111				Ĭ Ť						

Item 18A - Not applicable to this report

Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997

INSTRUCTIONS

 General – The manufactured products and services listed below are generally made in your industry. If you make products that are not listed, describe and report them in the "All other products made in this establishment" section at the end of item 18B. PLEASE DO NOT COMBINE PRODUCT LINES.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

2. Valuation of Products – Report the value of the products shipped and services performed at the net selling value, f.o.b. plant to the customer; i.e., after discounts and allowances, and exclusive of freight charges and excise taxes.

If you transfer products to other establishments within your company, you should assign the full economic value to the transferred products; i.e., include all direct costs of production and a reasonable proportion of all other costs and profits.

- 3. Contract Work Report PRODUCTS MADE BY OTHERS FOR YOU FROM YOUR MATERIALS on the specific lines as if they were made in this establishment. On the other hand, do not report on the specific product lines PRODUCTS THAT YOU MADE FROM MATERIALS OWNED BY OTHERS. Report only the amount that you received for "commission or contract receipts" under Census product code 93000 00 8.
- 4. Resales Do not report on the specific product lines those PRODUCTS BOUGHT AND SOLD OR TRANSFERRED FROM OTHER ESTABLISHMENTS OF YOUR COMPANY AND SOLD WITHOUT FURTHER MANUFACTURE. Report only a value under Census product code 99989 00 6, "Resales."
- 5. Detailed Data Reported Elsewhere Items denoted by an asterisk (*) require totals for groups of products covered in the more frequent Current Industrial Reports (CIR). If you report on the CIR forms, the sum of the detailed CIR products should equal the total reported on this census form.

NOTE: Only CIR totals are requested; do not duplicate detail reported on the CIR.

If not shown, please enter your 11-digit Census File Number from the address label on page 1

Census File Number

Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued

Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued																											
					Census	Unit	of	Products shipped and other receipts																			
9.		Products and	services		product code	meas	sure	Quantity	Value, f	.o.b. pl (E)	ant																
Line No					581	quan		583	584	Thou-																	
_		(A)			(B)	(0	:)	(D)	Millions	sands	Dollars																
1	Arc Welding Machines,	ARC WELDING MACHINES	Alternatin transform	g current er arc welders	35481 14 2	1			\$																		
2	Components, and Accesso- ries (Except electrodes; excluding stud welding equipment) (35481)		Direct current arc welder except stud welders, fully or partly automatic Rectifier-type direct current arc welder except stud welders, fully or partly automatic Rectifier-type	35481 01 9																							
3				direct current arc welders except stud welders, not fully or partly automatic	35481 02 7	Num	umber			 																	
4				Generators only	35481 03 5					 																	
5	-			Complete units only	35481 15 9		1			 																	
6			Transform	ners for arc welders	35481 05 0					 	 																
7	-	COMPONENTS AND ACCESSORIES FOR ARC WELDING MACHINES	Automation semiautori apparatus accessori	matic wire drive s and related	35481 07 6					 																	
8	_	(Except electrode)	torches, g and relate	matic welding juns and cables, ed accessories	35481 09 2					 	 																
9			Special p welding a	urpose automatic pparatus	35481 08 4					 																	
10			(including ground cl connector separatel	· · · · · · · · · · · · · · · · · · ·	35481 11 8					 	 																
11																			n (i a n n	(including and tail st	ig and ing equipment turn rolls, head lock, weld head fors, seamers, arriages, etc.)	35481 12 6					
			accessori ing machi welding re	components and es for arc weld- nery (excluding ods and s) – Specify kind						 																	
12	2				35481 18 3					 																	
13	Arc Welding Electrodes,	STICK ELECTRODES	Hard faci	ng	35482 09 0		\			 																	
14	Metal (35482)	(Including solid, cored, covered,	Other than	Mild steel	35482 03 3					 																	
14	1	and bare electrodes)	hard facing	Low alloy steel	35482 04 1					 																	
	-		, and a second	Stainless steel (chromium, 4% or						 																	
16				more)	35482 05 8				-	1	l I																
17	, -			Nonferrous	35482 06 6					I I	<u> </u>																
18	3	COILED AND SPOOLED CONTINUOUS	Hard faci	ng Solid wire:	35482 17 3	Thou pou				 																	
19		WIRE ELECTRODES FOR	than hard	Mild steel	35482 11 6					i I																	
20		AUTOMATIC ARC WELDING	AUTOMATIC facing ARC WELDING	Low alloy steel	35482 12 4					[[
21		AND INERT GAS SHIELDED ARC WELDING		• Stainless steel (chromium, 4% or more)	35482 13 2					 																	
22	2	(Including electrodes for submerged arc		Nonferrous	35482 14 0					 																	
23	3	welding, bare wire)		Cored wire	35482 18 1		,			 																	
									CONITINUIE	OND	ACE																

Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued											
				Census	Unit of	Products shipped and other receipts					
No.		Products and se	ervices	product	measure	Quantity	Value, f	.o.b. pl (E)	ant		
Line				581	quantities		584	Thou-			
_	RESISTANCE	(A)		(B)	(C)	(D)	Millions	sands	Dollars		
24	WELDERS, COMPONENTS,	Spot and projection	n welders – single electrode	35483 05 6			\$				
25	ACCESSORIES, AND	Spot and projection	n welders – multielectrode	35483 06 4				 	1		
26	ELECTRODES (35483)	Seam welders		35483 07 2	Niverban						
		Other resistance w	elders (including flash, lders) – <i>Specify kind</i>		Number 						
27		,	, , ,	35483 08 0				 	1		
	-	Resistance welder	transformers (sold								
28		separately)		35483 09 8	★ Thousand			 			
29		Resistance welder Resistance welder		35483 11 4	pounds						
		accessories (included etc.) – Specify kind	ling electrode holders,					 			
								! [
30				35483 19 7				[[
31	Gas Welding and Cutting	Torches (including torches)	welding torches and gas air	35484 01 3	↑			 			
	Equipment, Parts, Attachments,	,	and carriages, stationary	35484 02 1	Number ↓			 			
02	and Accessories	Other gas welding	and cutting equipment e containers) – Specify kind	33404 02 1							
	(Except plasma)	(excluding pressure	e containers) – <i>Specity kind</i>					 			
33	(35484)			35484 03 9				 	i I		
34		SPARE PARTS,	Tips	35484 04 7							
		ACCESSORIES, ATTACHMENTS,			Numbar			 			
35		ADAPTORS, ETC., SOLD SEPARATELY	Regulators, gas pressure	35484 05 4	Number			<u> </u> 			
36	OTHER	OLI AIVATELT	Other	35484 09 6	A			 			
37	WELDING EQUIPMENT,	Stud welding equip	pment	35485 01 0				<u> </u> 	i		
	COMPONENTS, AND ACCESSORIES	pulse welding mad	ling heated gas) and magnetic machines and apparatus, n.e.c.;								
38	/Evoluding	electric machines a ing of metals or sir	and apparatus for hot spray- itered metal carbides	35485 13 5				 			
39	resistance, and gas)	Other welding equifriction)	ipment, n.e.c. (including	35485 14 3	Number						
40	(35485)	Plasma welding ar partly automatic	d cutting equipment, fully or	35485 15 0							
41			nd cutting equipment, not	35485 16 8				<u> </u> 	 		
		Soldering equipme	nt (except hand and					1			
42		ultrasonic)	popogogica for all attack	35485 07 7	*			I 			
		welding equipment	accessories for all other (excluding arc welders, , and gas welding and					[[
43	GAS	cutting equipment)	,	35485 09 3				 			
44	CYLINDERS (34434)	Seamless, ferrous	and nonferrous	34434 14 2				! 			
		\\/-I-\		0440445				[[
45	ASSEMBLY	Welded, ferrous ar Rotary transfer (dia	34434 16 7	^			 				
46	MACHINES (35492)	column)		35492 11 5				I	l		
47		In-line transfer, syr	nchronous	35492 15 6	Number			 			
48		In-line transfer, nor	nsynchronous	35492 17 2				! 			
49		Special-purpose ar	nd other types	35492 13 1	1			 			
50		Parts and attachme (sold separately)	ents for assembly machines	35492 18 0				 			
51	Industrial robots.	attachments, and pa	arts	35699 09 9				! 			
							CONTINUU		100		

If not shown, please enter your 11-digit Census File Number from the address label on page 1 $\,$

Census File Number

Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued

Item 188. PRODUCTS AND SERVICES OF THIS ESTABLISHIVENT DURING 1997 - Continued											
			Census	Unit of	Products ship	pped and other receipts					
No.	*Item c	Products and services corresponds to products reported on	product measure code for		Quantity	Value, f.o.b. plant (E)					
Line No.		Current Industrial Reports	581	quantities	583	584	Thou-				
_	Integral bersens	(A)	(B)	(C)	(D)	Millions	sands	Dollars			
	transportation eq	ver motors and generators, other than for land uipment (rated at 746 watts or more) (excluding esponds to the value reported on MA36H for					 	 			
52		odes, see paragraph 4 "Comparability," of CIR	36212 00 9			 \$	 	<u> </u>			
	INDUSTRIAL						<u> </u> 	<u> </u>			
53	LASER SYSTEMS	Welding Boring and drilling	36992 91 5				 				
54	AND EQUIPMENT (Except	equipment	36992 31 1				 				
55	communication)	Gear cutting machines	36992 33 7				 				
56		Textile printing equipment	36992 41 0								
57		Printing presses	36992 43 6				 				
58		Etching and engraving equipment	36992 45 1				 				
	Ultrasonic equipr	nent (except medical and dental) (corresponds ipments reported on CIR Form MA36P,					 	 			
	Communication E	Equipment, for 1997. For corresponding survey paragraph 4. "Comparability." of					 				
59	CIR instruction m	nanual.)*	36995 00 9				 				
60	-	hine shop job work and job order repair	35995 00 0				İ				
	ALL OTHER PRODUCTS MADE IN THIS ESTABLISH-	Describe and report separately each product with a sales value of \$50,000 or more which cannot be assigned to one of the lines above. Specify unit of measure for					 	 			
	MENT	quantity.					 	!			
61			18				 				
62			26				 				
63			34				 				
64			42				 				
65			59				 				
66			67				 				
67	CONTRACT WORK	Receipts for work done for others on their own materials	93000 00 8				 				
		kind of work.					 	 			
							 	l I			
68	MISCELLA- NEOUS RECEIPTS	Receipts for repair work	99980 61 7				 				
69		Other miscellaneous receipts (including sale of scrap, etc.)	99980 98 9				 				
	RESALES		22223 00 0				<u> </u> 				
		Sales of products bought and sold without further manufacture, processing, or assembly in this establishment. The					 				
70		cost of such items should be reported in item 10, line b.	99989 00 6				 				
71	TOTAL va Sum of lin	nlue of shipments and other receipts es 1–70, column (E)	77000 00 8			\$	 				
						l	<u> </u>				

CONTINUE WITH ITEM 19 ON PAGE 10

Fα	rm MC-352	9							Page 10
	em 19. SELEC	CTED PRODUCTS PRODUCED IN THIS ESTA	ABLISHMEN	T AND) USE	D IN MA	NUFA	CTURI	
	OTHE	R PRODUCTS MADE IN THIS ESTABLISHM INSTRUC							
	produced manufactu establishm 2. Purchases	ow the quantity of each listed item in this establishment and used in Iring other products made in this	3. Materials	e repo s proc ation i s. uantition	orted in duced n othe	n item 17. for sale a er produc	s such ts shou	and no ld be re	t for eported in
Line No.		ltem	Census code Census during 1997?				qua	nit of asure for ntities	Quantities produced in this establishment and used in manufacturing other products made in this establishment
		(A)	591 (B)	Ye	es	No	_	(D) hort	593 (E)
1	Ferrous foundrie	es 	1001 7	1		2		ons	
2	FOUNDRIES (Except	Aluminum	1002 5	1		2			
3	die-casting)	Copper	1003 3	1		2			
4		Zinc	1004 1	1		2		usand unds	
5		Other	1005 8	1		2 🗆			
6	Nonferrous die-	1006 6	1		2		\		
7	Precision turned centers, and CN	I products (on screw machines, turning C equipment)	1007 4	1		2			
		1 – Not applicable to this report							
REMARKS - Please use this space for any explanations that may be essential in understanding your reported data.									
Item 22. CERTIFICATION – This report is substantially accurate and has been prepared in accordance with instructions.									
	ame of person to	contact regarding this report (Print or type)	Teleph	one	Area o		umber		Extension
	ame of company	,	Address (Nu			reet, city,	State, .	ZIP Cod	de)

Year

Title

TO: Month

2

Day

Period covered 666 1

Signature of authorized person

FROM: Month

Day

Year

Date